

FIG. 1

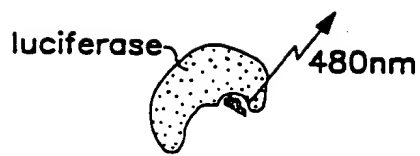


FIG. 2A

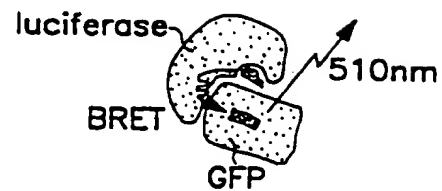


FIG. 2C

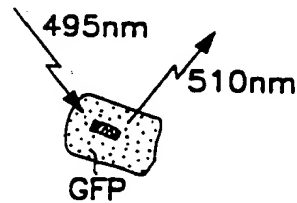


FIG. 2B

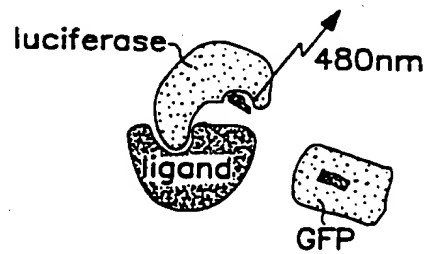


FIG. 2D

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BRET Sensor Architectures

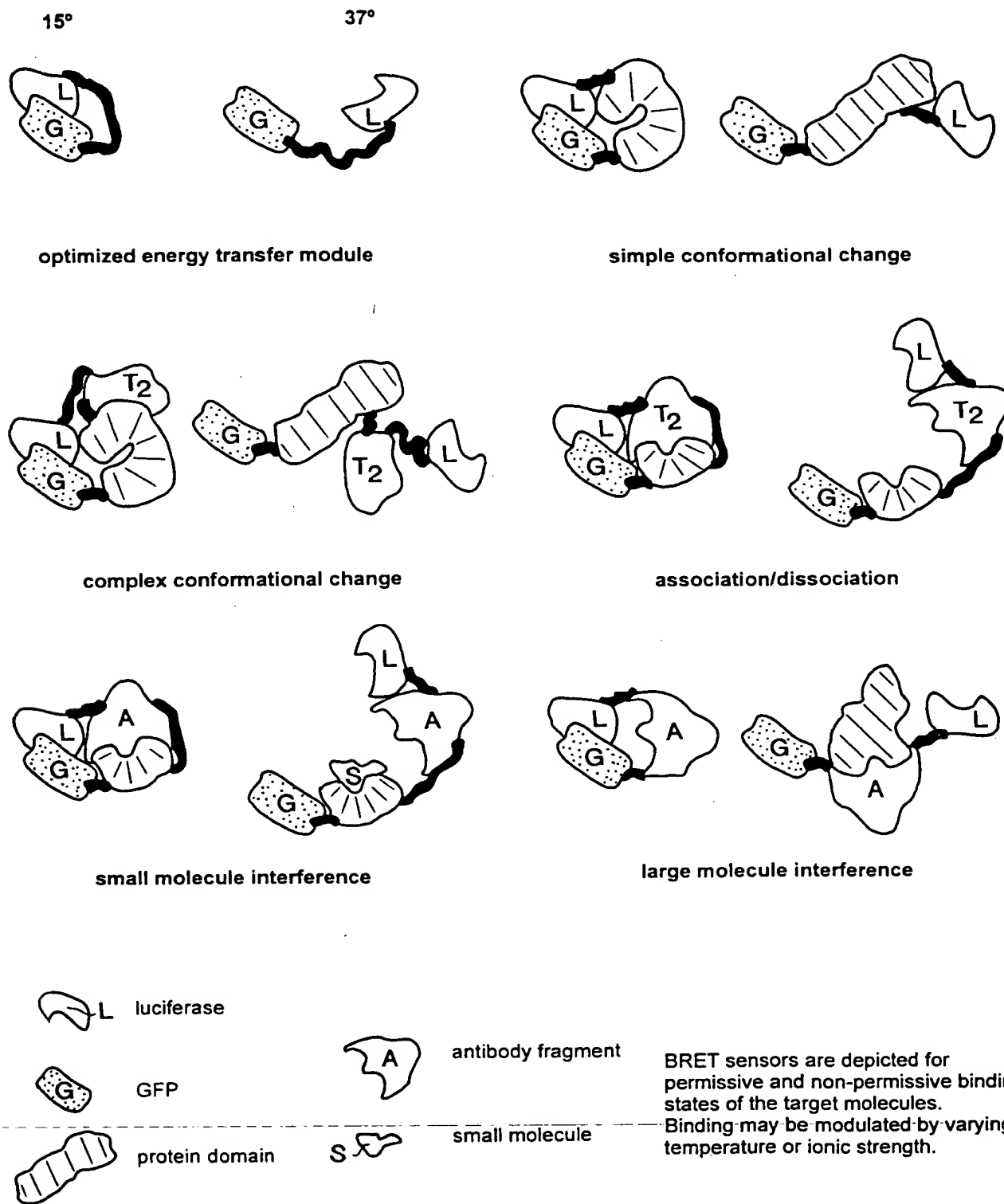


FIG. 3

Title: RENILLA REINFORMIS FLUORESCENT PROTEIN
NUCLEIC ACIDS ENCODING THE FLUORESCENT
PROTEINS AND THE USE THEREOF IN
DIAGNOSTICS, HIGH THROUGHPUT SCREENING
AND NOVELTY ITEMS.

Applicant: Bryan et al. Our Docket No.: 24729-0128
Serial No. 09/808,898 Filed: March 15, 2001

Utilization of advantageous GFP surfaces with substituted fluorophores

	60	*	80	
RM-GFP	:	GAPLPFAFDIVSPA	FQYGNRTFTKYPNDIS--	: 83
Pt-GFP	:	GGPLPFAFDIVSIA	FQYGNRTFTKYPDDIA--	: 83
RR-GFP	:	GAPLPFAFDIVSVA	FSYGNRAYTGYPEEIS--	: 80
cFP484	:	GAPLPFSYDILSNA	FQYGNRALTKYPDDIA--	: 83
drFP583	:	GGPLPFAWDILSPQ	FQYGSKVYVKHPADIP--	: 80
asFP595	:	GGPLPFAFHILSTSC	MYGSKTFIKYVSGIP--	: 77
dsFP483	:	GGPLPFGWHILCPQ	FQYGNKAFVHHPDNIH--	: 80
amFP486	:	GGPLAFSFDILSTV	FKYGNRCFTAYPTSMP--	: 82
zFP506	:	GGPLPFAEDILSAA	FNYGNRVFTEYPQDIV--	: 80
zFP538	:	GGPLPFSIEDILSAG	FKYGDRIFFEYPQDIV--	: 80
=====				

FIG. 4

[illegible]

FIG. 5

Title: RENILLA REINFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS.

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Aequorea :
R mullerei :
Ptilosarcu :
R reniform :
drFP583 :
drFP593 :
dsFP483 :
cFP484 :
asFP595 :
amFP486 :
zFP538 :
zFP506 :

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zFP538 :
zFP506 :

Aequorea :
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R reniform :
drFP583 :
drFP593 :
dsFP483 :
cFP484 :
asFP595 :
amFP486 :
zFP538 :
zFP506 :

D,E,H,K,R N,Q,S,T L,I,V,M,F,Y,W A,G C,P
polar charged polar uncharged non-polar hydrophobic small not grouped

dimerization ☐ hydrophilic
surfaces ☐ hydrophobic

FIG. 6